

CTN Test Report 92-016

AFTB-ID 92-023



Raster Transfer Test Using

Image Memory Systems, Inc.



MIL-R-28002 (Raster)

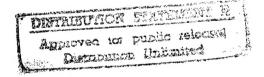


Quick Short Test Report



20 November 1992





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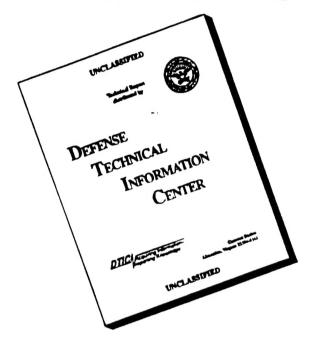


Prepared for

Air Force Materiel Command

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Raster Transfer Test
Using Image Memory Systems, Inc.

MIL-R-28002 (Raster)

Quick Short Test Report

20 November 1992

Prepared By Air Force CALS Test Bed Wright-Patterson AFB, OH 45433

AFTB Contact Gary Lammers (513) 427-2295

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1. Introduction

1.1 Background

The DoD Computer-aided Acquisition and Logistics Support (CALS) Test Network (CTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The CTN is a DoD-sponsored confederation of voluntary participants from industry and government managed by the Air Force Materiel Command.

The primary objective of the CTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards, formal and informal. Formal tests are large, comprehensive tests that follow a written test plan, require specific authorization from DoD, and may take months to prepare, execute, and report.

Informal tests are used by the CTN technical staff to broaden the testing base by including representative samples of the many systems and applications used by CTN participants. They also allow the CTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and to respond, in a timely manner, to the many requests for help that come from participants. Participants take part voluntarily and are benefited by receiving an evaluation of their latest implementation (interpretation) of the standards, interacting with the CTN technical staff, gaining experience in use of the standards, and developing increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test reported in this QSTR was to analyze Image Memory Systems' interpretation and use of the CALS Standards in generating raster data. Image Memory Systems used its CALS Raster Technical Data System to produce data in accordance with the standards and delivered it to the CTN technical staff on a floppy disk. The test was to evaluate the raster data files and not the transfer media.

2. Test Parameters

Test Plan:

AFTB 92-23

Date of

Evaluation:

3 April 1992

Evaluator:

George Elwood

Air Force CALS Test Bed

HQ AFMC/ENCT

4027 Colonel Glenn Hwy

Suite 200

Dayton, OH 45431-1601

Data

Originator:

John D. Pugnale

Image Memory Systems, Inc.

6000 Webster Street Dayton, OH 45414

Data

Description:

Raster Test

7 Raster files

Data

Source System: Raster

HARDWARE

Photomatrix Aperture Card Scanner

SOFTWARE

Image Memory Systems CARDSCAN V 1.0 R 6.2

Autodesk AutoCAD Release 11C2

Image Systems Technology (IST) CAD Overlay ESP 3.5

Image Systems Technology Compress 3.5

Evaluation Tools Used:

MIL-R-28002 (Raster)

SUN 3/60

CTN Raster Tools

Rosetta Technology Preview V3.1

Cheetah

Inset Systems HiJaak V2.02 SPC Harvard Graphics V3.0 Xerox Ventura Publisher

Standards

Tested:

MIL-R-28002

3. 1840A Analysis

3.1 External Packaging

The floppy disk was hand delivered to the Air Force CALS Test Bed in a commercial floppy disk mailer. The outside of the envelope was not marked with a magnetic media warning label. The envelope did have a label which indicated the number of files on the floppy disk.

3.2 Transmission Envelope

The floppy disk received by the Air Force Test Bed contained MIL-R-28002 files. The files were not named per the standard conventions. They had an additional extension on each file indicating that the files were "GP4".

3.2.1 Tape Formats

The data files were delivered on a floppy disk without the complete CALS file set. No Declaration file was included. The purpose of the test was to evaluate the data files and not the CALS transfer package.

3.2.2 Declaration and Header Fields

Not included on the floppy disk.

The header records on the raster files were evaluated manually. It was noted that the rpelcnt and rdensty records included a period after the data. This is not permitted in MIL-STD-1840A.

4. IGES Analysis

No IGES files were included on the floppy disk.

5. SGML Analysis

No text files were included on the floppy disk.

6. Raster Analysis

All 7 raster images were checked using the CTN validg4 utility. This utility reported that all of the files were valid MIL-R-28002 files.

The files were evaluated using the CTN calstb.350. This utility is old and does not convert and display files unless they are formatted in a certain way. It will not display all MIL-R-28002 files. Of the seven files being evaluated, three were read in and displayed. It was noted that the displayed images had been scanned in at a slight angle. Many orphan pixels were noted.

The files were converted using Rosetta Technologies *Prepare* without reported problems. The resulting files were viewed using Rosetta Technologies *Preview*. Orphan pixels were noted along with the images being at a slight angle. File D001R007 had the most noticeable orphan pixels. The images were output in hard copy and are included in the appendix to this report. The output was generated at a medium resolution.

The files were converted using Inset Systems HiJaak without reported problem. The resulting files were converted to an IMG format and inserted into Xerox Ventura Publisher. The results are included in the appendix to this report.

7. CGM Analysis

No CGM files were included on the disk.

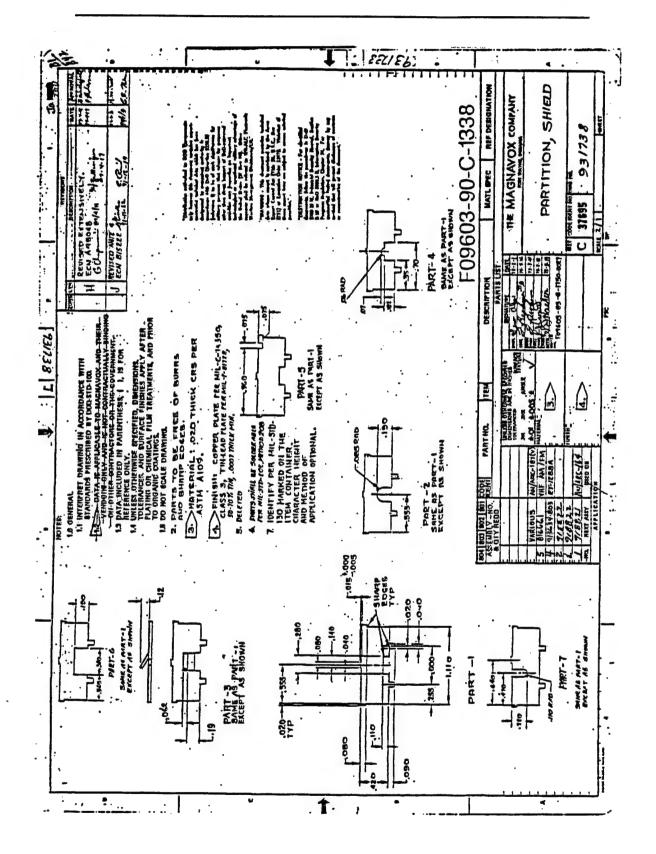
8. Conclusions and Recommendations

In summary, the floppy disk contained raster files which met current CALS MIL-R-28002 Standards. A minor error was noted in the raster head records rpelcnt and rdensty where a period was inserted after the data. The files could be read, translated and viewed using several software tools available in the AFTB. The only comment would relate to the quality of the images. Orphan pixels were on most of the images and they were scanned at a slight angle. Without copies of the originals, it could not be determined where the problem was generated.

9. Image Memory Systems Processing Comments

The aperture cards were scanned at a threshold setting that provided the best compromise between line density and noise background. No effort was made to despeckle or deskew the scanned image. The scanned images were imported into AutoCAD using CAD Overlay ESP. A distribution statement and contract number were added to each image. The resulting image was converted to a CALS Type I format using IST compress software.

- 10. Appendix A Raster Images
- 10.1 Preview
- 10.1.1 D001R001



10.1.2 D001R002

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10.1.3 D001R003

.3 NECIVATEAL REQUIREMENTS

31

3.3.1 CONFIGURATION SHALL BE PER FIGURE 1.

3.3.2 LENIS SIMIL DE SOLDENABLE AND SOLDERABILITY SIMIL DE PROYEM DY TEST METHOD 200 OF MIL-SID-202.

SETS/2

3.3.3 PARKING SIMIL DE IN ACCORDANCE VITH METHODS I AND 11 OF MIL-510-1265 EXCEPT, AS MODIFIED HEREIN.

3.5.3.1 CAPACITANCE, CAPACITANCE TOLERANCE, POLARITY ARE REQUIRED AS MINIMAN MADKING FOR THE PARIS.

3.3.3.2 PART DESTIFICATION AND PURCHASER'S PART MANDER SHALL BE PAUCED ON THE UNIT PACKAGING.

3.5.3.3 IF METHOD 17 OF HILL-S10-1265 TS USED THE POTS SHALL BE

1.3.3 IF NETINO 11 OF HIL-STO-128S IS USED THE POIS SMAIL BE LOCATED AS SHOW IN FIGURE 1. NOTE, BLACK DOIS ARE CHITTED MIERE BLACK CAPACITOR BOOTES ARE USED.

3.3.4 TERMINAL STRENGTH TEST IS A LEAD PULL AND THER THE LEADS SHALL WITHSTAND TRREE 90° BERES AND RETURN WITHOUT PREAKING.

1.4 ENVINONMENTAL REQUIREMENTS

3.4.1 RELIABILITY AND FAILURE RATE LEVEL REQUIREMENTS ARE NOT APPLICABLE.

3.4.2 SEAL TEST IS NOT APPLICABLE.

3.4.3 INFERSION TEST IS NOT APPLICABLE.

3.4.4 AFTER POISTURE TEST THE CAPACITORS SIMIL WEET THE AFTER REQUIREMENTS OF MILL-C-39003 EXCEPT FOR DISSIPATION FACIOR WHICH WILL BE ALLOWED A LIMIT OF 200% OF THE TABLE I VALUE AND CAPACITANCE WHICH WILL BE ALLOWED A LIMIT OF 2 10% OF TABLE I VALUE.

3.4.8 SALT SPIAT IS NOT APPLICABLE.

9.4.6" NFIER LIFE TEST, DC LEACAGE AND DISSEPTION FACTOR ANE TO MEET TABLE I VALUES AND THE CAPACITANCE SIMIL HAVE CHANGED NO MORE THAN ± 15%.

"WARNING - This document contains technical

date whose export is restricted by the Arms

9.4.7 STABILITY LINITS AT LOW AND HIGH TEMPERATURES TO BE AS FOLLOWS:

3.4.7.1 AT -55°C CAPACITANCE CHANGE TO BE WITHIN -15% OF THE 25°C YALUE AND THE DISSIPATION FACTON TO BE WITHIN TABLE I LIMITS.

3.4.7.2 AT +25°C CAPACITANCE TO BE WITHIN ± 5% OF THE DRIGINAL +25°C VALUE AND DISSIPATION FACTOR TO BE WITHIN THE TABLE J LINITS.

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10.1.4 D001R004

1.1 THIS SPECIFICATION COVERS THE DETAILED REQUIRENENTS FOR A FIXED SOLID ELECTROLITIC TANIALM CAPACITOR FOR USE IN MILITARY ELECTRONIC EQUIPMENT.

JHTERPRET DRAVING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY. ~:

1.8 SCOPE

2 10

1.0 APPLICABLE DOCUMENTS

STISES

THE FOLLOWING DOCUMENTS OF THE 185UE IN EFFECT ON DATE OF INVIVATION FOR SPECIFIC REVISED WAS ARE SPECIFIC REVISIONS ARE SPECIFIED HEREIN) FORM A PART OF THIS SPECIFICATION TO THE EXIENT SPECIFIED HEREIN. 7.7

PRECEDENCE OF DOCUMENTS 2.2

IN THE EVENT OF COMPLICY BETWEEN THIS SPECIFICATION AND ANY REFERENCED DOCUMENT, THIS SPECIFICATION SYALL GOVERN.

REFERENCED DOCUMENTS

2:3

TEST NETIDOS FOR ELECTRICAL AND ELECTIONIC CONPONENT CAPACITORS, FIXED, ELECTROLYTIC SOLLD TANTALLY CAPACITORS, PACKAGING MIL-C-39003 MEL-5TD-202 NIL-C-39028

Distribution sufficients to DOD Components

controlled technical data which has be designated by competent authority in

reference if to be of each significance eccordance with DoD Directive 5710.25

WARKING OF ELECTRICAL AND ELECTRONIC PARTS MIL-STD-1285

3.0 REQUINEHENTS

ALL CNYCITORS SUPPLIED TO THIS SPECIFICATION SHALL MEET THE REQUIREMENTS
PF HILC-59003 EXCEPT AS MUDIFIED HEREIN. THE MANUFACTURER, IN COMPLIANCE
MILL THIS SPECIFICATION, STALL HAVE PRODUCTION AND TEST FACILITIES AND A
QUALITY AND RELABILITY ASSURANCE PROGRAM ADEQUATE TO ASSURE SUCCESSFUL
COMPLIANCE WITH THE PROVISIONS OF THIS SPECIFICATION. 3.1

3.2 ELECTRICAL REQUIREMENTS

- 3.2.1 ELECTRICAL CHANCIENISTICS SINIL BE PER JABLE 1.
- 3.2.2 PARIS STALL TAVE AN EFFECTIVE SERIES CAPACITANCE (Cg) OF 15 WE HINTAM AT A FREQUENCY OF 12.5 MIL.
- PARTS SIAIL HAVE A MAXIMUM DISSIPATION FACTOR OF .40 AT A FREQUENCY Of 18.8 Ma. 3.1.3

F09603-90-C-1338 37895. C. Dobbins A-1-1 May 0-14

method that will prevent disclosure of contents or reconstruction of the document."

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II-19 or DoD \$200.1-R, information Security Program Regulation, Chapter IX. For unclassified limited documents, destroy by any these export laws are subject to severe erhalm documents, follow the procedures in DoD 3200.22-M, Indostriel Security Menual, Section "DESTRUCTION NOTICE . For deselfed peneltles."

10.1.5 D001R005

(refrence f) to be of such significance for utilizy purposes that release for purpose other than effect support of DeD-suproved activities ray peopertus on important technological or opertural selfarry advantage of the Union Santas (27 New 90). Other revents shall be referred to Virtual Electronia Warfars Managament Directors/AM.

- 3.4.7.3 AT +85°C THE CAPACITANCE CHANGE FROM +25°C VALUE TO BE +15% MAXIMUM, THE DISSIPATION FACTOR TO BE WITHIN 200% OF TABLE I VALUE.

 VALUE, THE DC LEAKAGE TO BE WITHIN 10 TIMES TABLE I VALUE.
- 3.4.7.4 AT +125°C THE CAPACITANCE CHANGE FROM +25°C VALUE TO BE +20% MAXIMUM, THE DISSIPATION FACTOR TO BE WITHIN 200% OF TABLE 1 VALUE, THE DC LEAKAGE TO BE WITHIN 15 TIMES TABLE I VALUE WHEN MEASURED AT 66% OF PATED VOLTAGE.

321512

3.4.8 AFTER SURBE VOLTAGE TEST THE DC LEAKAGE AND DISSIPATION FACTOR SHALL MET TABLE I VALUE, THE CAPACITANCE SHALL BE WITHIN ±5% OF ORIGINAL INTEGRAL.

DIE BAG

- 3.4.9 RADIOGRAPH INSPECTION IS NOT APPLICABLE.
- 3.4.10 THERMAL SHOCK AND VOLTAGE AGING TESTING SPECIFIED UNDER GROUP A TESTING IS NOT REQUIRED.
- 3.5 PRODUCT ASSURANCE
- 3.5.1 ONLY THOSE DEVICES THAT MAVE BEEN INSPECTED FOR AND MEET THE REQUIREMENTS OF THIS SPECIFICATION SHALL BE MARKED AND DELIVERED.
- 4.0 QUALITY ASSURANCE PROVISIONS
- 1.1 RESPONSIBILITY FOR INSPECTION

THE KANUFACTUREN IS RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION REQUIREMENTS AS SPECIFIED HEREIM.

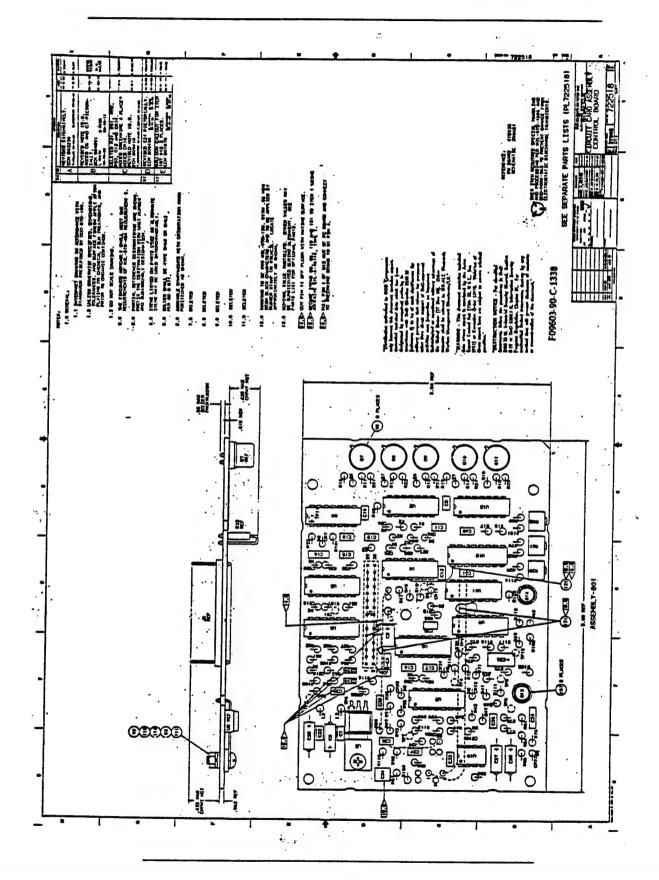
- 4.2 QUALIFICATION TESTING SHALL NOT BE PERFORMED UMLESS REQUESTED BY THE PARTS PURCHASER RESERVES THE RIGHT TO QUALIFY ALL PARTS AGAINST THIS DOCUMENT TO THE EXTENT DEENED NECESSARY.
- 4.3 QUALITY CONFORMANCE PROVISIONS
- 4.3.1 PARTS SHALL BE SCREENED PER PARAGRAPHS 3.2.2 AND 3.2.3 OM 100% BASIS.
- 4.3.1.1 A CERTIFICATION OF COMPLIANCE SHALL BE SUPPLIED WITH THE LOT OF MATERIAL.
- 4.4 TEST CONDITION
- 4.4.1 FOR LEAD PULL OF THE TENNINAL STRENGTH TEST SHALL USE A FORCE OF 8 oz FUR FIVE SECONDS IN THE DIRECTION OF THE LEAD EGRESS WITH THE CAPACITOR.
- 4.4.2 LIFE TEST IS TO BE MADE AT +85°C AND +125°C FOR 2000 HOURS WITH THE APPLICABLE RATED VOLTAGE APPLIED.
- 4.4.3 SURGE VOLTAGE VOLTAGE IS TO BE RUN AT +85°C ONLY WITH 130% OF RATED VOLTAGE APPLIED IN ACCORDANCE WITH MIL-C-39003.

| Microstructure | FO9603-90-C-1338 | Expression | FO9603-90-C

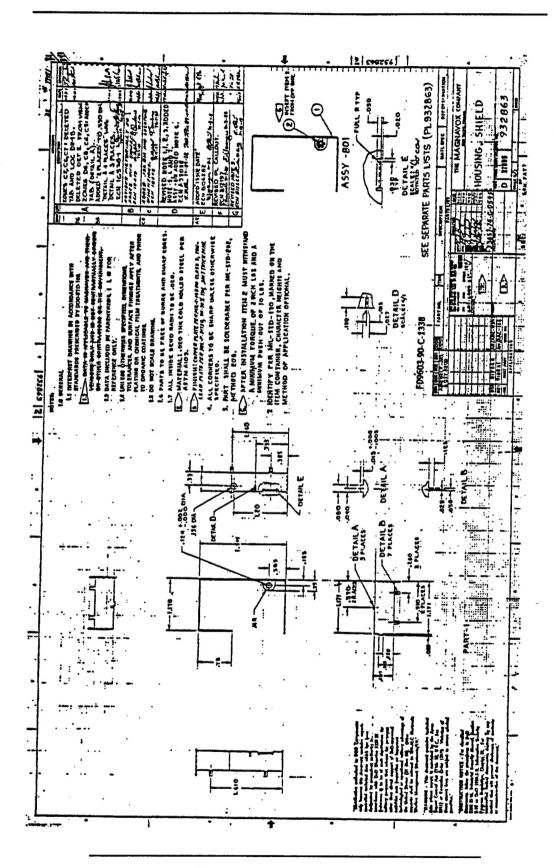
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10.1.6 D001R006

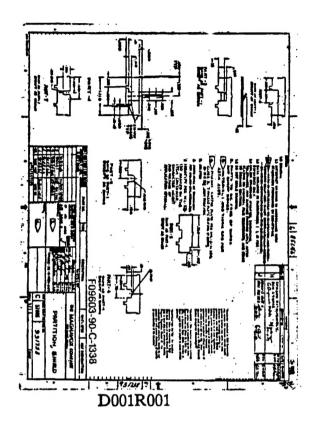


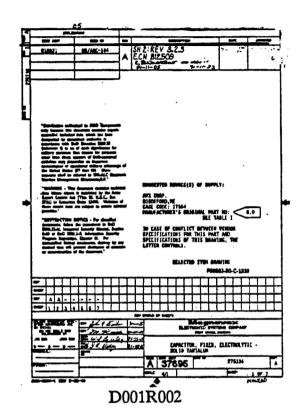
10.1.7 D001R007

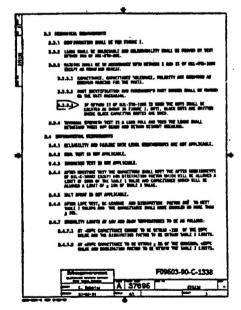


10.2 HiJaak/Ventura

10.2.1 D001R001 - D001R004







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